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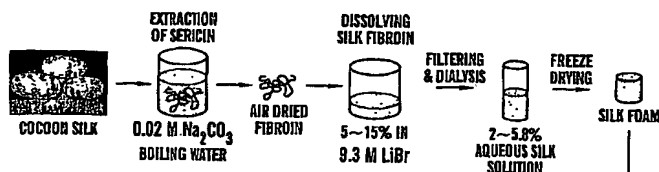
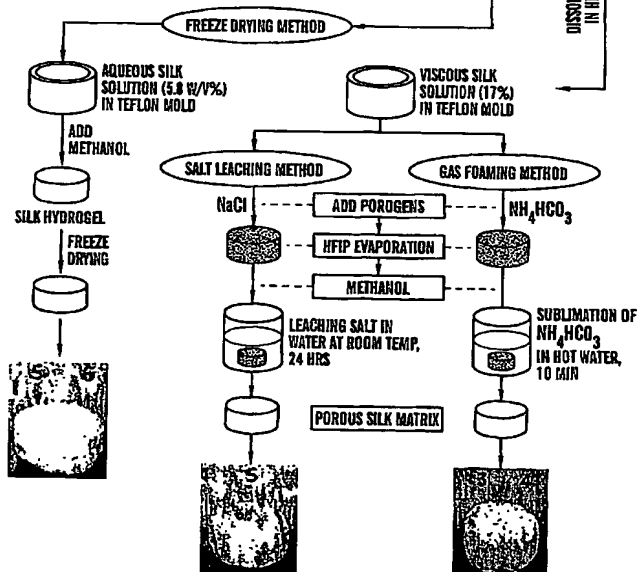
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(54) Title: **SILK FIBROIN MATERIALS AND USE THEREOF****A. SILK PROCESSING****B. SILK SCAFFOLD FABRICATION**

(57) Abstract: The present invention provides processes for producing porous silk fibroin scaffold material. The porous silk fibroin scaffold can be used for tissue engineering. The porosity of the silk fibroin scaffolds described herein can be adjusted as to mimic the gradient of densities found in natural tissue. Accordingly, methods for engineering of 3-dimensional tissue, e.g. bone and cartilage, using the silk fibroin scaffold material are also provided.

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